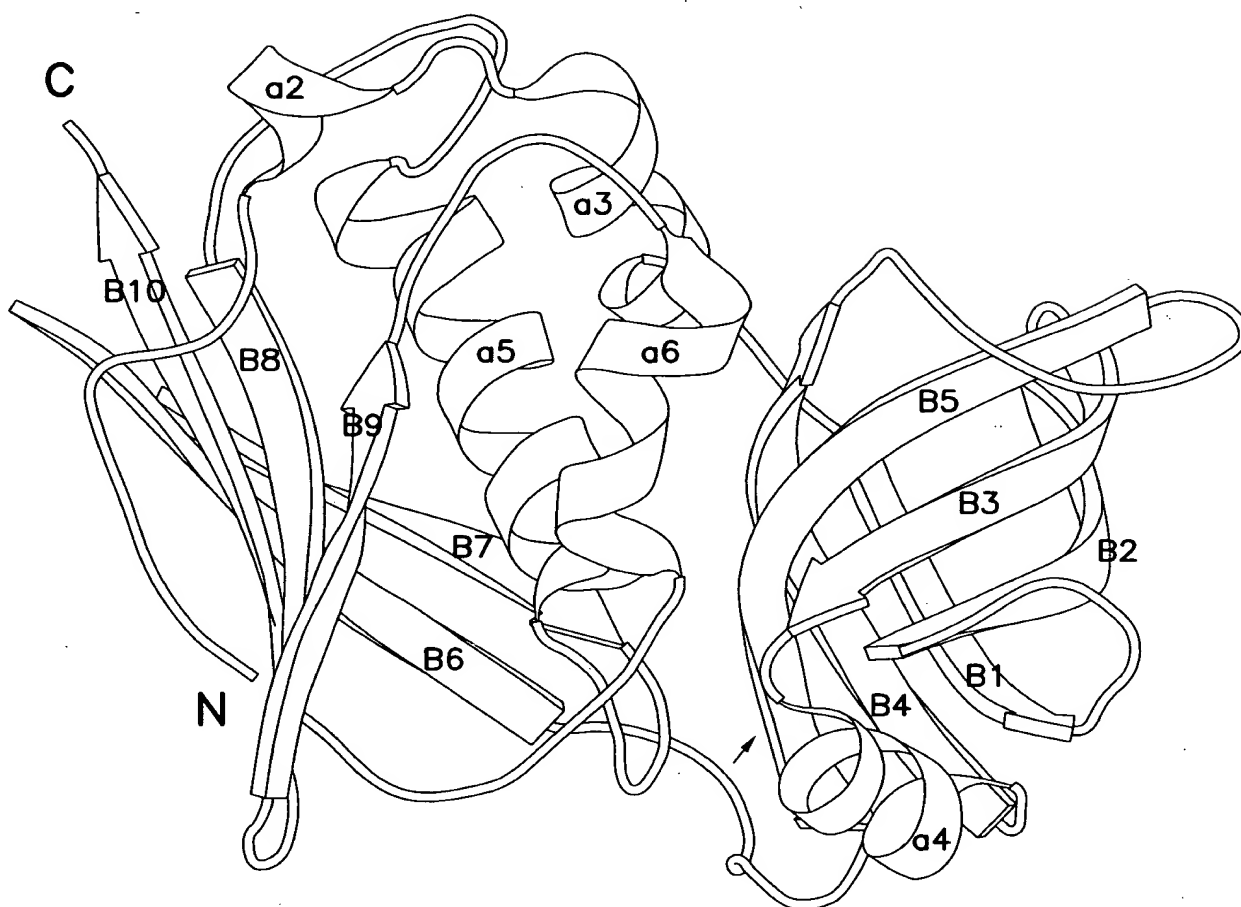


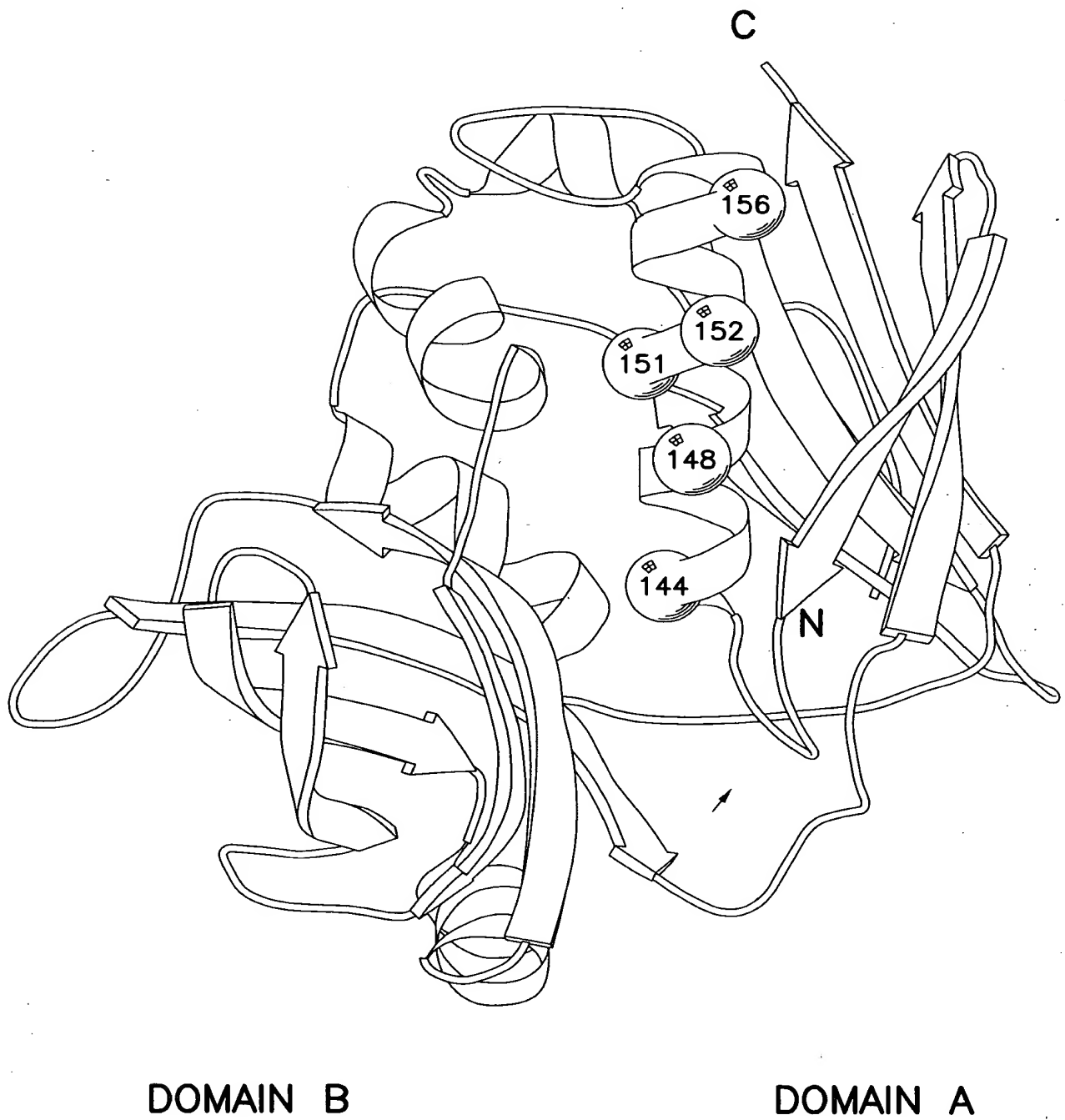
FIG. 1

DOMAIN A



DOMAIN B

FIG. 2



# FIG. 3A

TCATGTTTGACAGCTTATCATCGATAAGCTTACTTTTCGAATCAGGTCTATCCTTGAAACAGGTGCAACATAGATTAGGGCATGGAGATTTACCAGACAA  
50 100  
CTATGAACGTATATACTCACATCAGCAATCGGCAATTGATGACATTGGAACTAAATTCAATCAATTGTTACTAACAAGCAACTAGATTGACAACATAAT  
150 200  
TCTCAACAAACGTTAATTTAACAACATTCAAGTAACTCCCACCAGCTCCATCAATGCTTACCGTAAGTAATCATAACTTACTAAAACTTGTTACATCAA  
250 300  
GGTTTTTCTTTTTGTCTTGTTTCATGAGTTACCATAACTTTCTATATTATGACAACATAAATTGACAACCTTCAATTATTTTTCTGTCTACTCAAAGTT  
350 400  
TTCTTCATTGATATAGTCTAATTCCACCATCACTTCTTCCACTCTCTCTACCGTCACAACCTTCATCATCTCTCACTTTTTCGTGTGGTAACACATAATC  
450 500  
AAATATCTTTCCGTTTTTACGCACTATCGCTACGTGTACCTAAATATACCCCTTATCAATCGCTTCTTTAAACTCATCTATATATAACATATTTTCAT  
550 600  
CCTCCTACCTATCTATTGTAATAAAGATAAAAAATACTATTGTTTTTTTTGTTATTTTATAATAAAATTATTAATATAAGTTAATGTTTTTTAAAAATAT  
650 700  
ACAATTTTATCTATTATATAGTTAGCTATTTTTTCATGTTAGTAATATTGGTGAATTGTAATAACCTTTTAAATCTAGAGGAGAACCCAGATATAAAA  
750 800

M E N N K K V L K K M V F F V L V T F L G L  
TGGAGGAATATTA ATG GAA AAC AAT AAA AAA GTA TTG AAG AAA ATG GTA TTT TTT GTT TTA GTG ACA TTT CTT GGA CTA  
RBS

1 10  
T I S Q E V F A Q Q D P D P S Q L H R S S L V K N L  
ACA ATC TCG CAA GAG GTA TTT GCT CAA CAA GAC CCC GAT CCA AGC CAA CTT CAC AGA TCT AGT TTA GTT AAA AAC CTT  
20 30 40  
Q N I Y F L Y E G D P Y T H E H V K S V D Q L L S H  
CAA AAT ATA TAT TTT CTT TAT GAG GGT GAC CCT GTT ACT CAC GAG AAT GTG AAA TCT GTT GAT CAA CTT TTA TCT CAC  
50 60 70  
D L I Y N V S G P N Y D K L K T E L K N Q E M A T L  
GAT TTA ATA TAT AAT GTT TCA GGG CCA AAT TAT GAT AAA TTA AAA ACT GAA CTT AAG AAC CAA GAG ATG GCA ACT TTA

## FIG. 3B

80 90  
F K D K N V D I Y G V E Y Y H L C T L C E N A E R S  
TTT AAG GAT AAA AAC GTT GAT ATT TAT GGT GTA GAA TAT TAC CAT CTC TGT TAT TTA TGT GAA AAT GCA GAA AGG AGT

100 110 120  
A C I Y G G V T M H E G N H L E I P K K I V V K V S  
GCA TGT ATC TAC GGA GGG GTA ACA AAT CAT GAA GGG AAT CAT TTA GAA ATT CCT AAA AAG ATA GTC GTT AAA GTA TCA

130 140  
I D G I O S L S F D I E T N K K M V T A Q E L D Y K  
ATC GAT GGT ATC CAA AGC CTA TCA TTT GAT ATT GAA ACA AAT AAA AAA ATG GTA ACT GCT CAA GAA TTA GAC TAT AAA

150 160 170  
V R K Y L T D N K Q L Y T N G P S K Y E T G Y I K F  
GTT AGA AAA TAT CTT ACA GAT AAT AAG CAA CTA TAT ACT AAT GGA CCT TCT AAA TAT GAA ACT GGA TAT ATT AAG TTC

180 190 200  
I P K N K E S F W F D F F P E P E F T Q S K Y L M I  
ATA CCT AAG AAT AAA GAA AGT TTT TGG TTT GAT TTT TTC CCT GAA CCA GAA TTT ACT CAA TCT AAA TAT CTT ATG ATA

210 220  
Y K D N E T L D S N T S Q I E V Y L T T K \*  
TAT AAA GAT AAT GAA ACG CTT GAC TCA AAC ACA AGC CAA ATT GAA GTC TAC CTA ACA ACC AAG TAA CTTTTGCTTTTGGC

AACCTTACCTACTGCTGGATTTAGAAATTTTATTGCAATTCCTTTATTAATGTAA~~AAACCGCTCATTGATGAGCGGTTT~~TGTCTTATCTAAAGGAGCTTTAC

1600 1650

CTCCTAATGCTGCAAAATTTTAAATGTTGGATTTTGTATTTGTCTATTGTATTTGATGGGTAATCCCATTTTTCGACAGACATCGTCGTGCCACCTCTAACA

1700 1750

CCAAAATCATAGACAGGAGCTTGTAGCTTAGCAACTATTTTATCGTC 3'

1800 1837

FIG. 4A

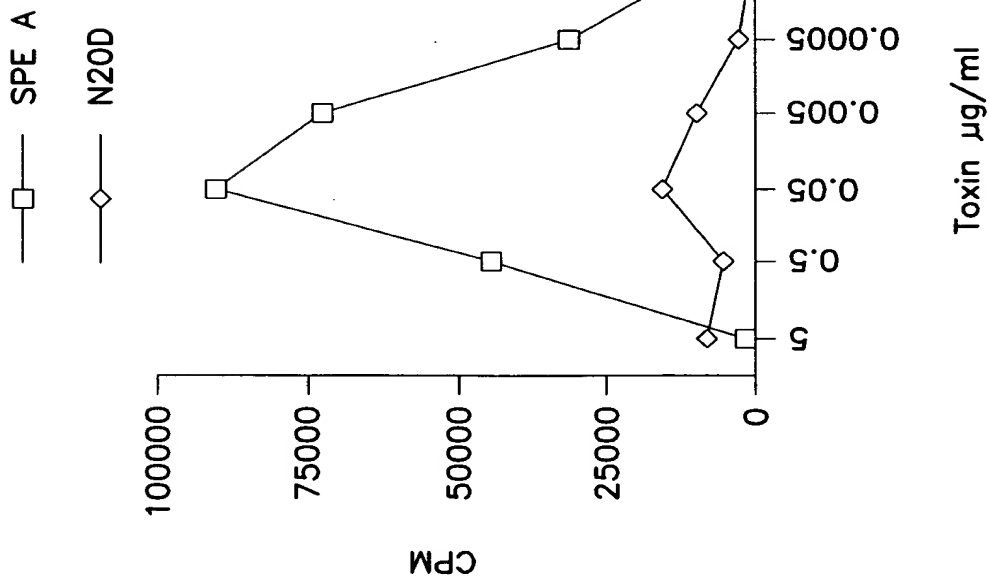


FIG. 4B

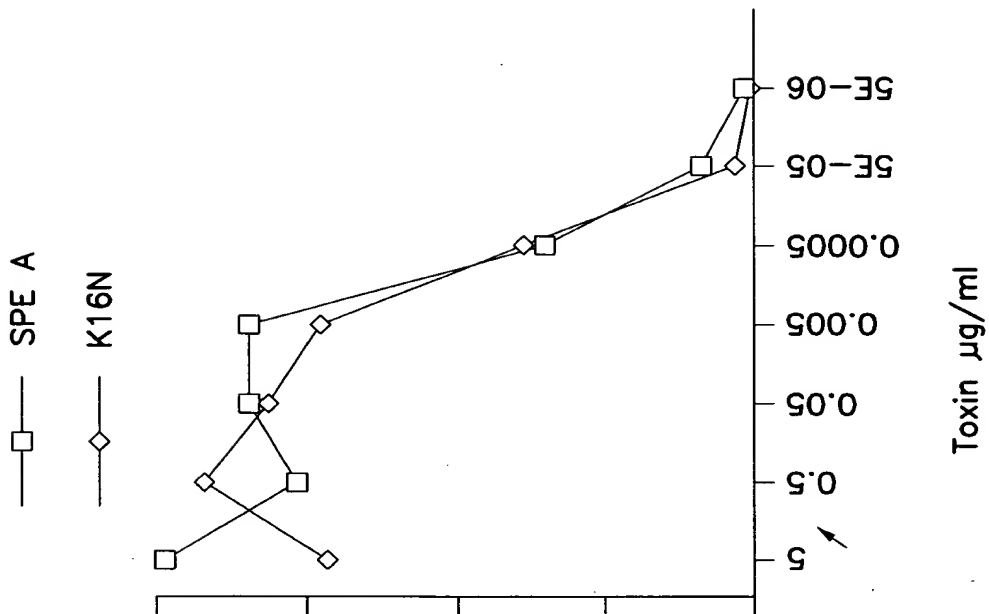


FIG. 5A

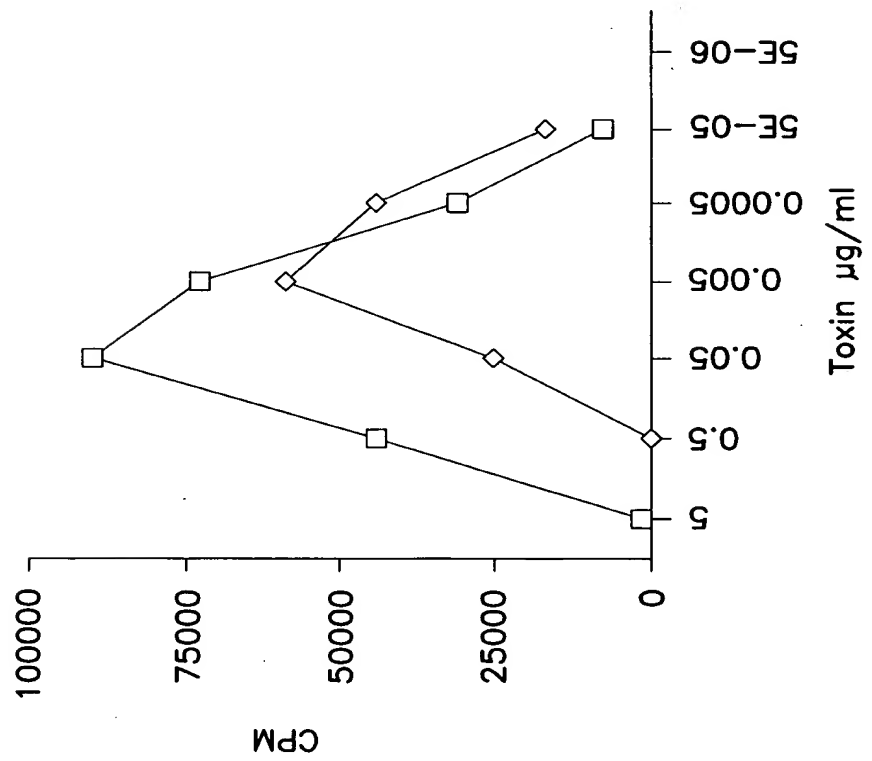


FIG. 5B

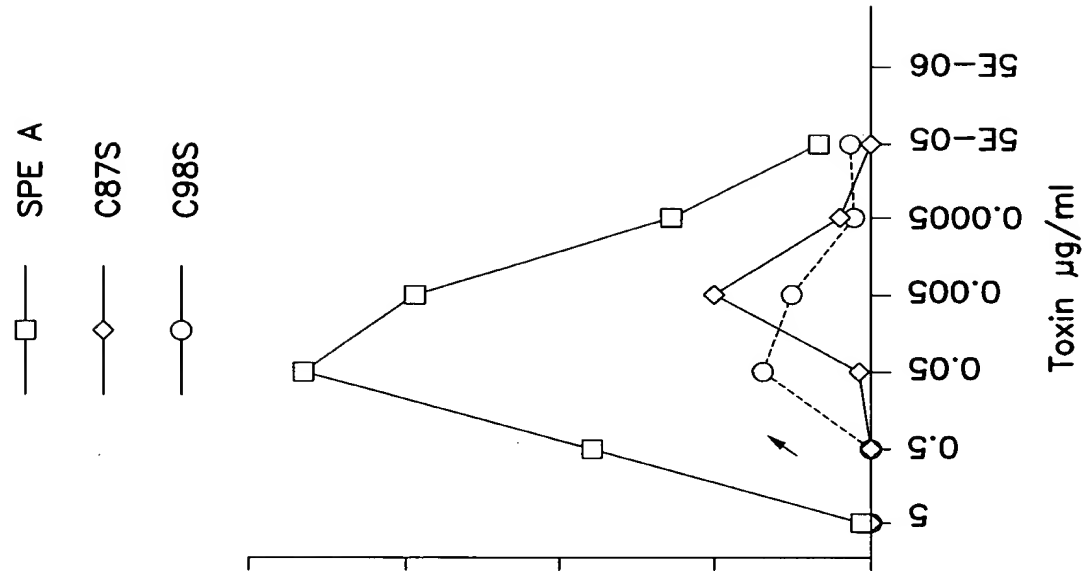


FIG. 6A

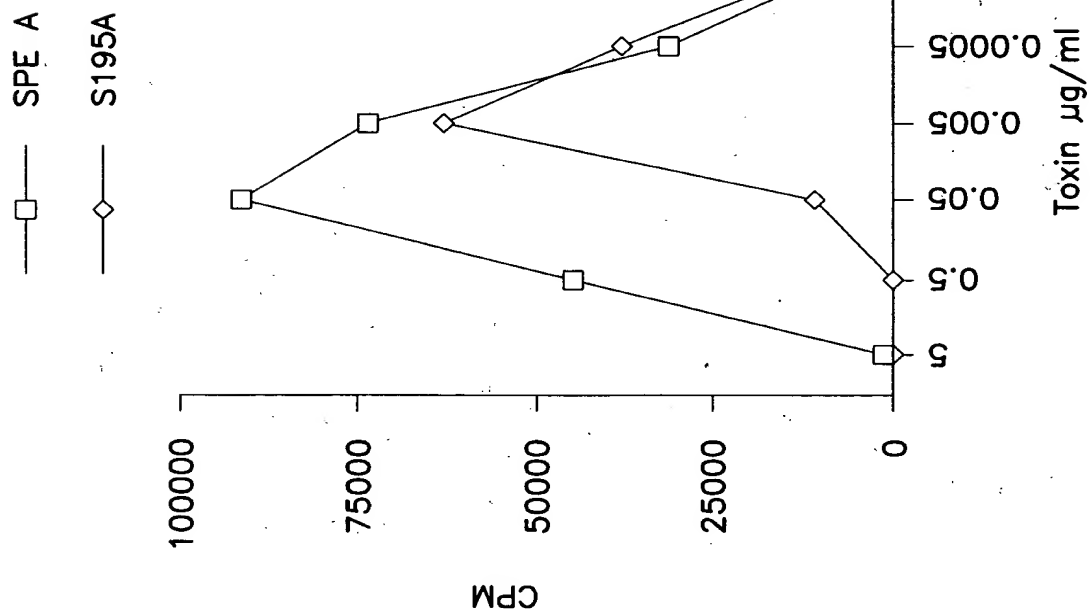
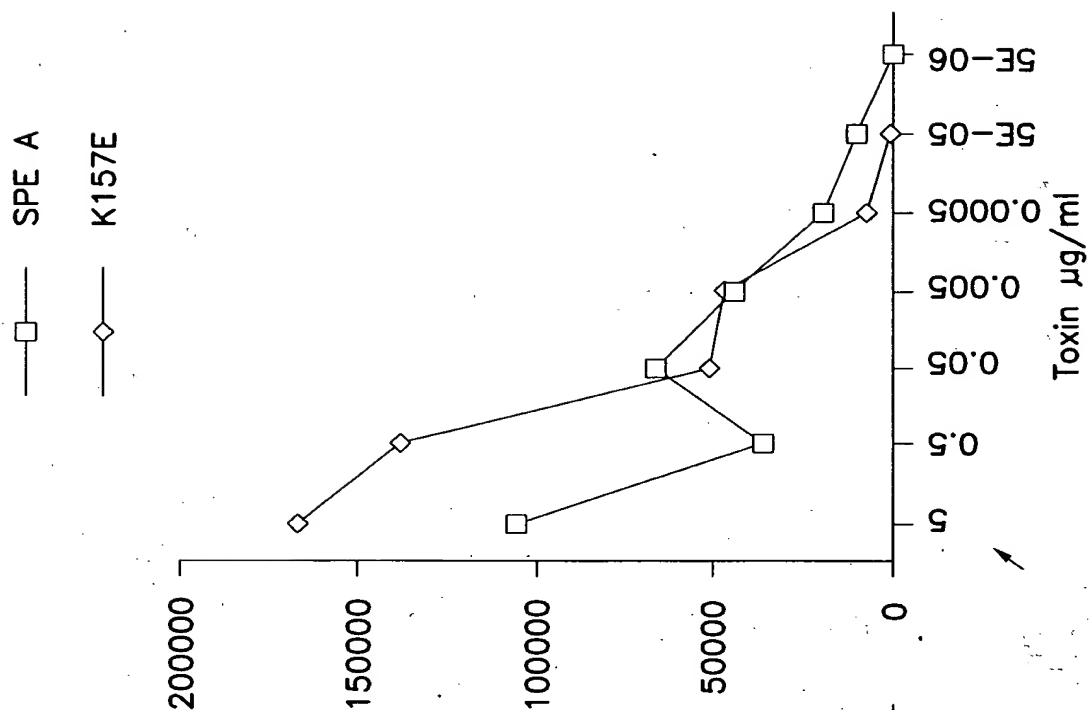


FIG. 6B



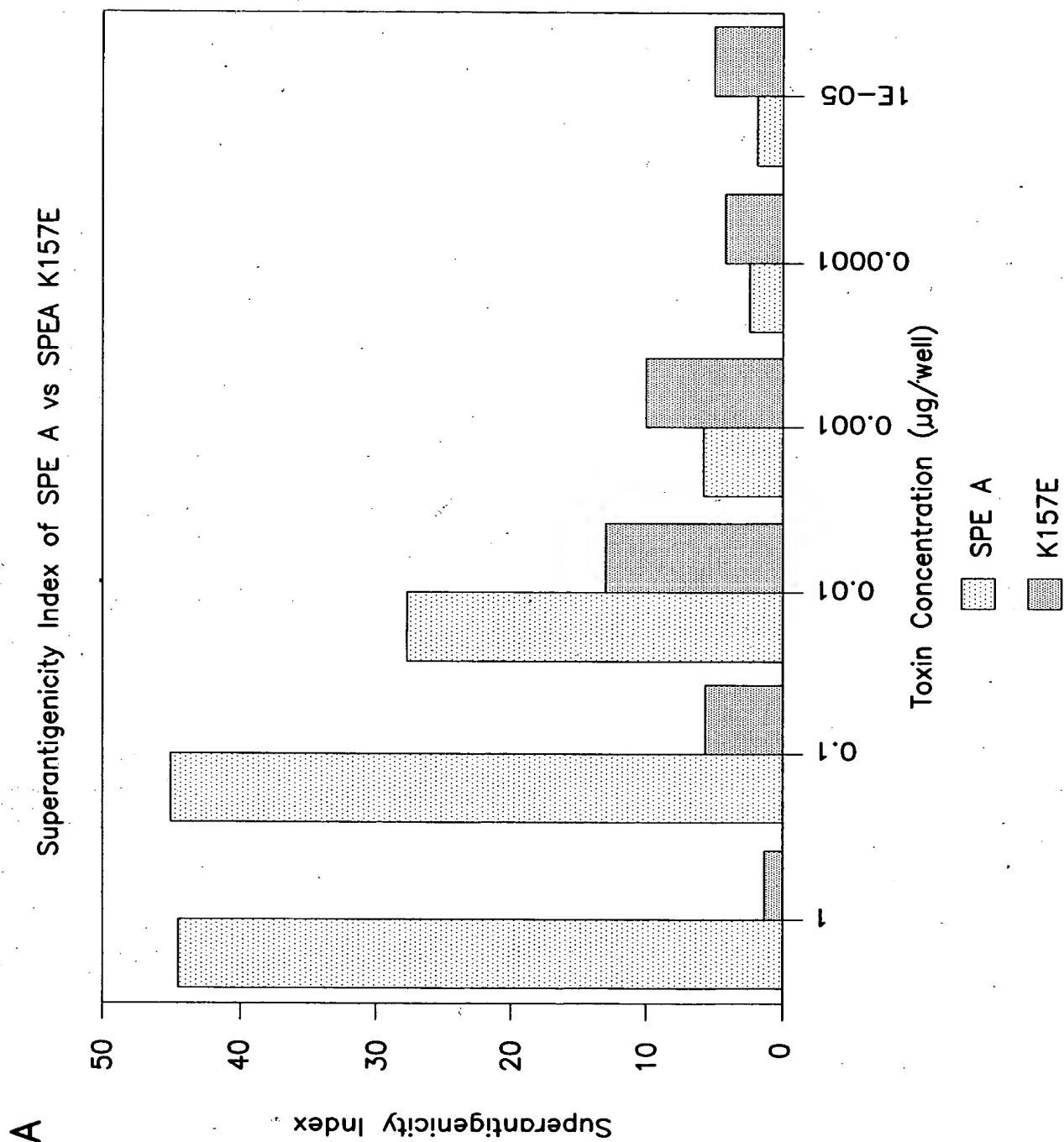
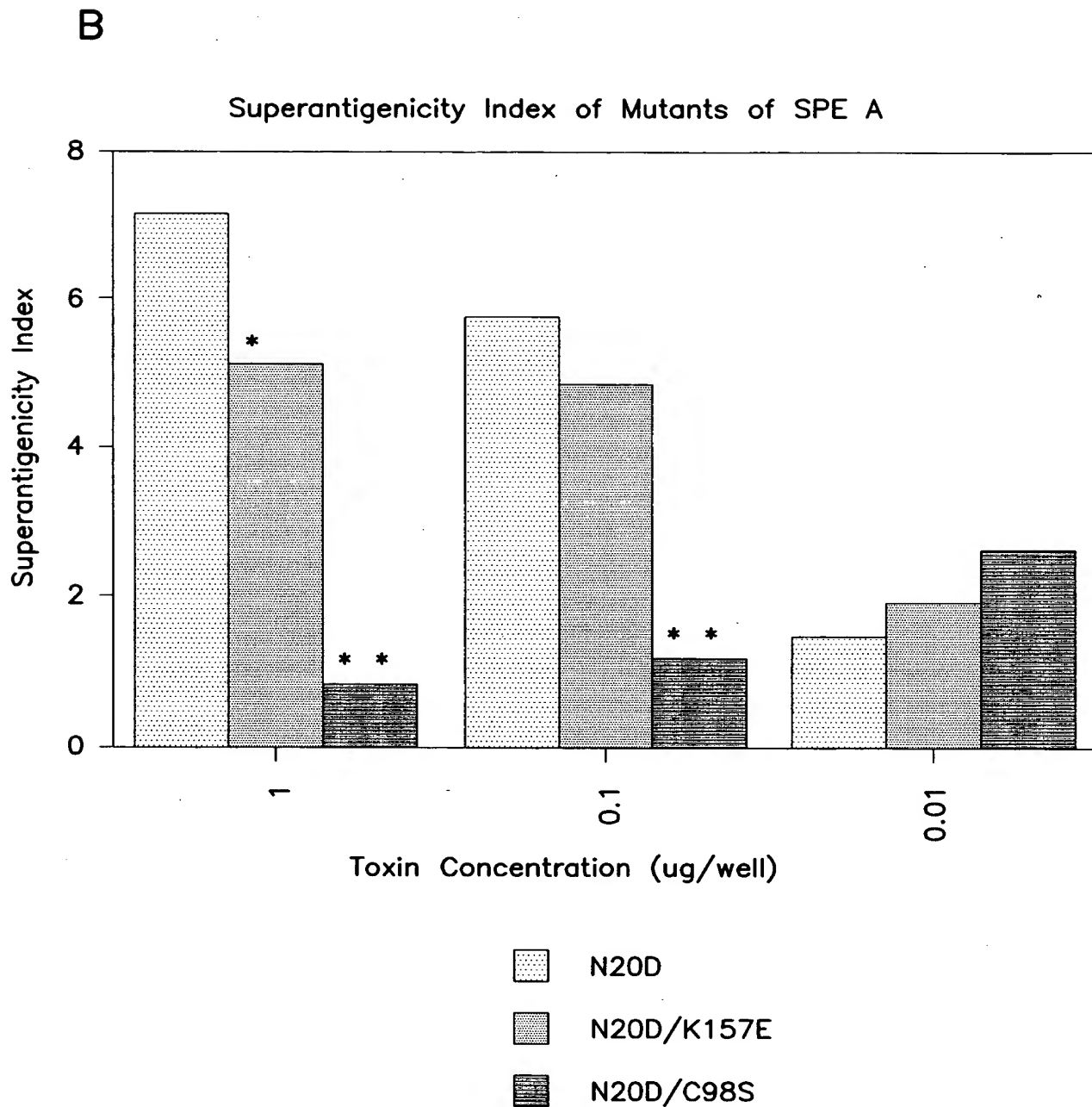


FIG. 7



FIG. 8



\* Significantly different from N20D,  $p < 0.01$

\* Significantly different from N20D  $p < 0.001$  at 1ug,  $p < 0.001$  at 0.1ug

FIG. 9

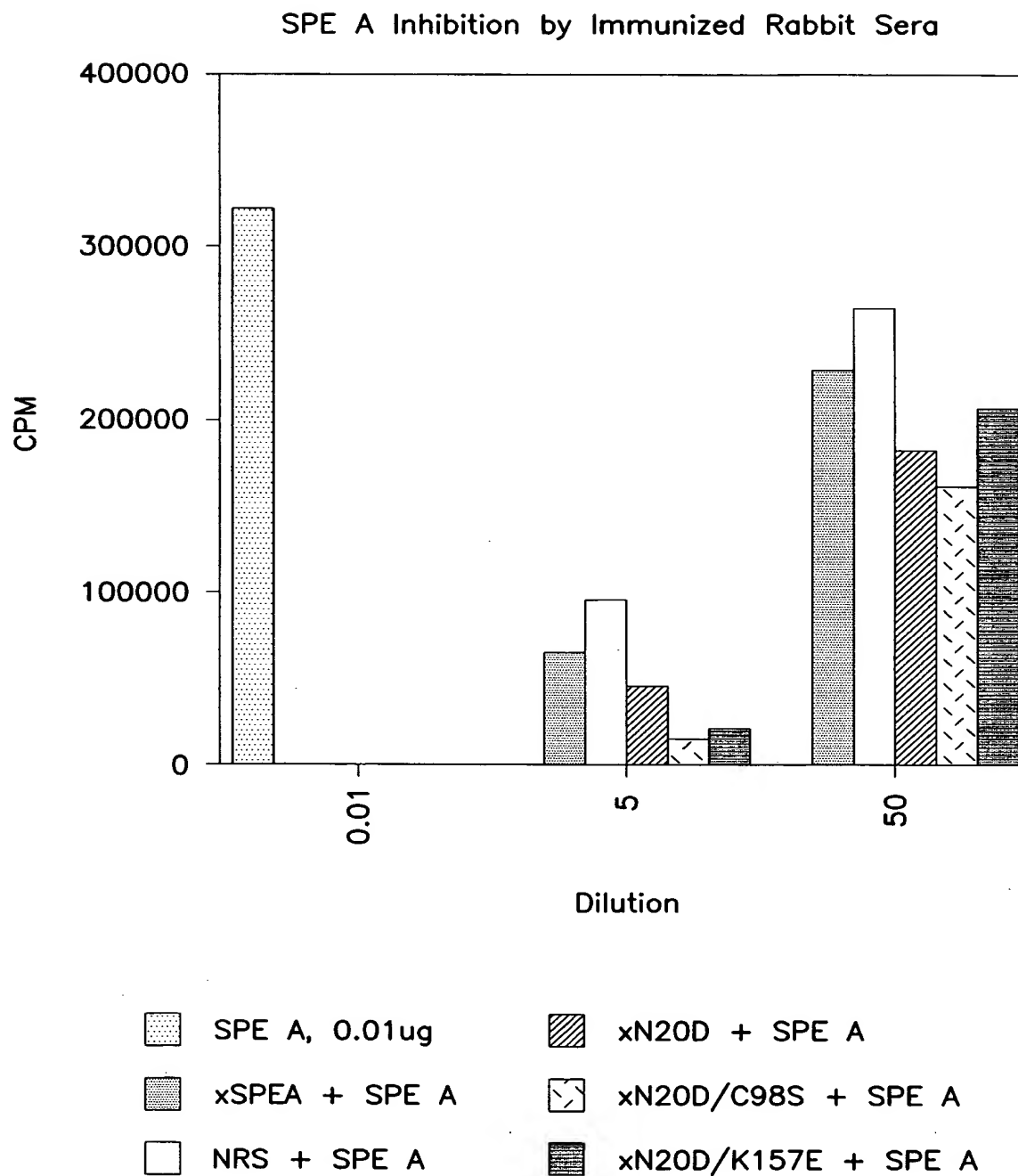


FIG. 10

SPE A

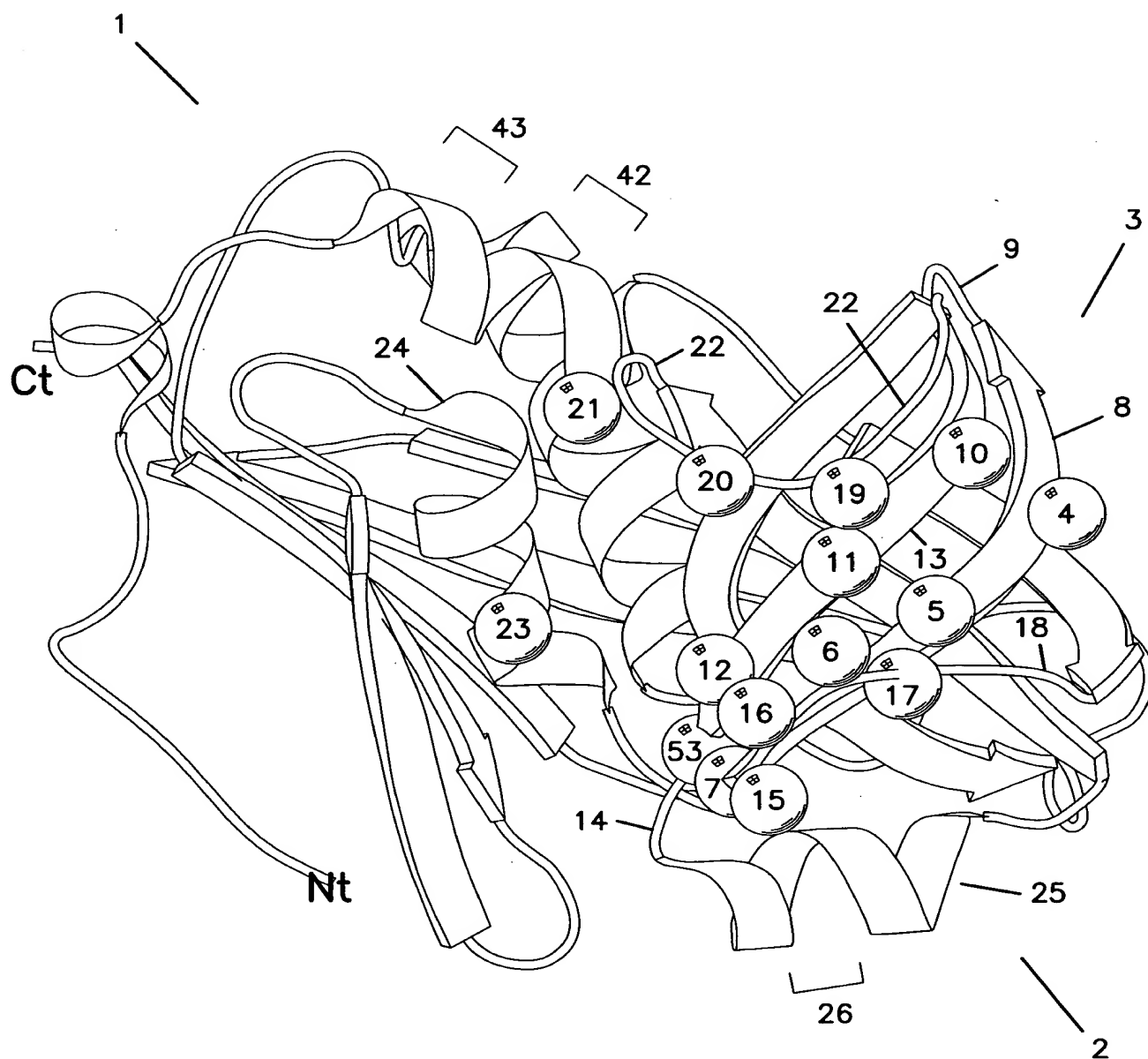


FIG. 11

SPE A

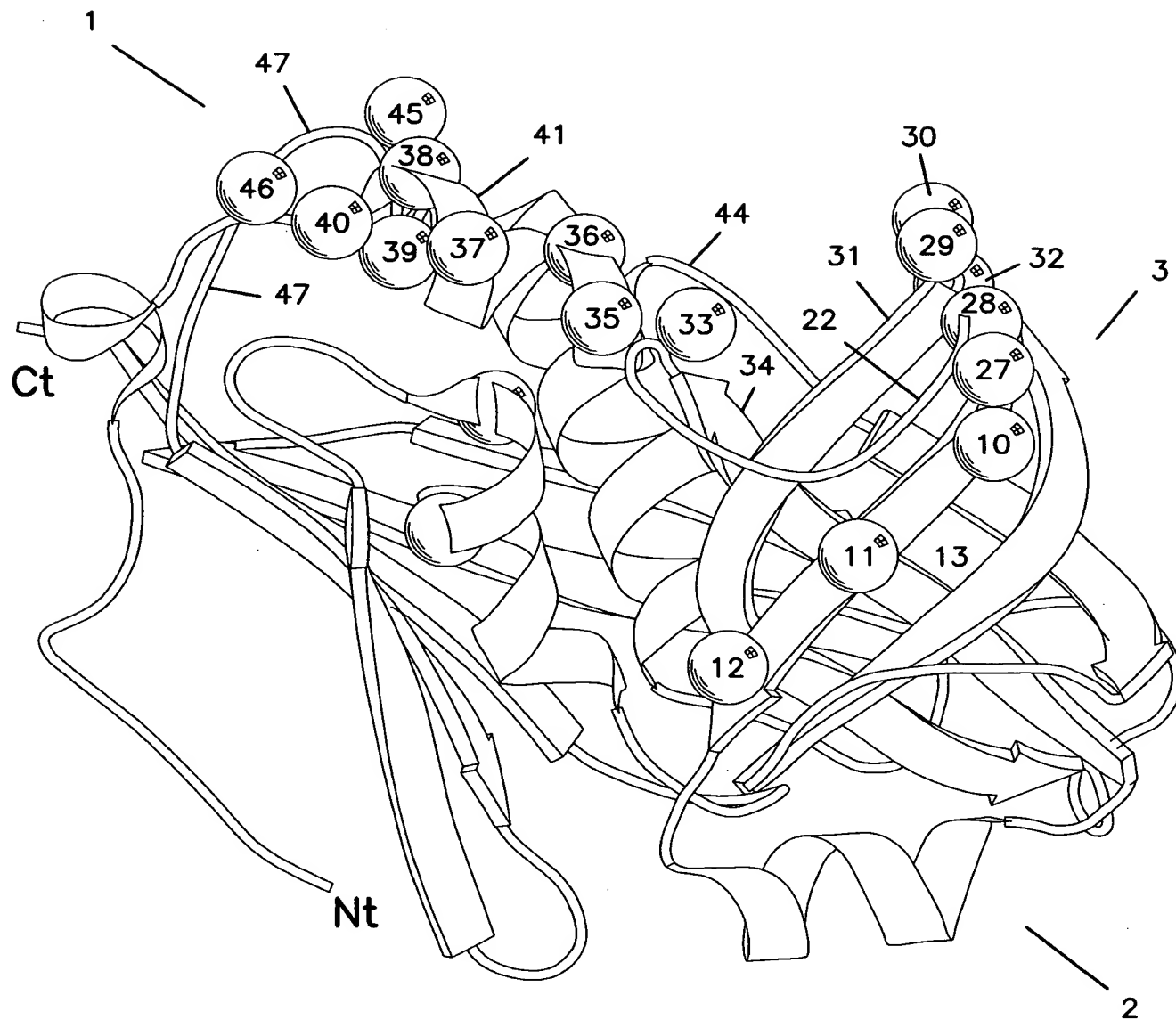


FIG. 12

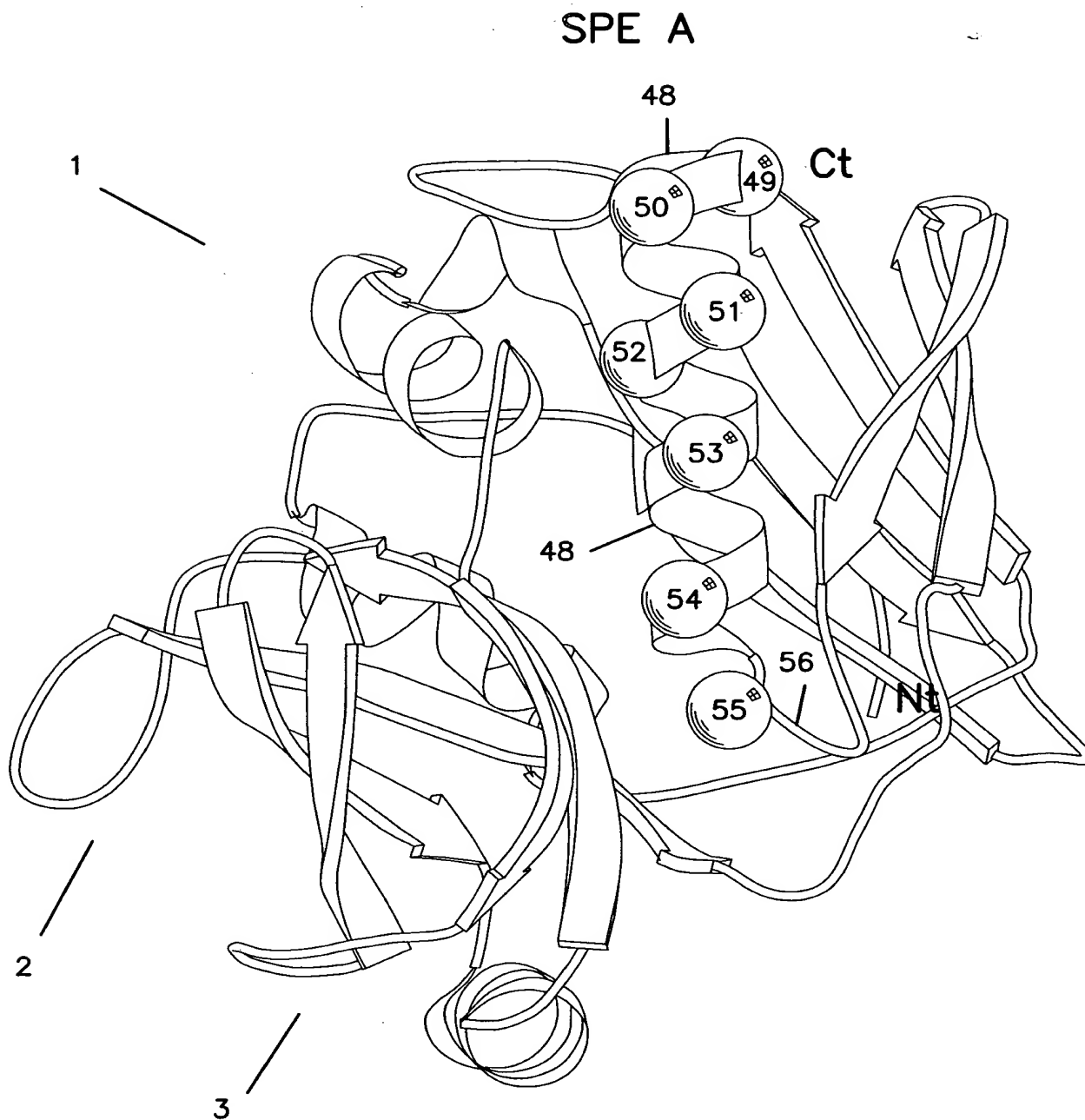


FIG. 13

